\$ 209.69

Fitchburg Gas and Electric Light Company Residential Enhanced Metering Options One Time Fee

_				
1	Option One - Residential:			
2 3	House, Panading Equipment - ECSE Owned Equipment			
3 4	Hourly Reporting Equipment - FG&E Owned Equipment Incremental Cost of Residential Meter with Modem / Mass Memory Module In	ctall	od.	
	incremental Cost of Residential Meter with Modern / Mass Memory Module in	Stan	eu.	
5 6			Mount	Notes:
7	Mass Memory Module	\$	115.00	1
8	Modem Module	\$	368.00	1
9	Cost of Labor (One Meter Mechanic 1.5 Hours @ \$23.43/hr)	\$	35.15	2
10	Labor - Related Overheads	\$	46.04	3
11	Transportation	\$	7.00	4
12	Estimated Material (Telephone line surge suppressor, misc. wire, tape, etc.)	\$	35.00	·
13		<u></u>		
14	One Time Fee for Residential Option One	\$	606.19	
15	one time ree for Residential Option one	Ψ	000.10	
16				
17				
18				
19				
20	Option Two - Residential;			
21	Senation (Methodistri			
22	Hourly Reporting Equipment - Customer Owned Equipment			
23	Incremental Cost of Pulse Interface Box Installed:			
24				
25		A	mount	Notes:
26	KYZ Module	\$	69.00	1
27	Pulse Interface	\$	47.50	1
28	Cost of Labor (One Meter Mechanic 1.5 Hours @ \$23.43/hr)	\$	35.15	2
29	Labor - Related Overheads	\$	46.04	3
30	Transportation	\$	7.00	4
31	Estimated Material (Misc. wire, tape, etc.)	\$	5.00	
32				

- 1 Material estimates provided by metering department based on equipment currently in use.
- 2 Labor cost based on hourly wage of Meter Mechanic effective June 1, 2001 per union labor agreement.
- 3 Based upon April 1, 2001 direct labor overhead rate of 131%.

One Time Fee for Residential Option Two

33

4 Based upon \$0.70/mile transportation rate for vehicle during 2001 and estimated trip of 10 miles.

Fitchburg Gas and Electric Light Company **General Service Enhanced Metering Options** One Time Fee

Option One - General Service:

Hourly Reporting Equipment - FG&E Owned Equipment

Incremental Cost of General Service Meter with Modem / Mass Memory Module Installed:

5	, and the second	hout existing interval metering Amount	With existing interval metering Amount	Notes:	
7	Mass Memory Module	\$ 115.00	\$ 	1	
8	Modern Module	\$ 368.00	\$ 368.00	1	
9	Cost of Labor (One Meter Mechanic 1.5 Hours @ \$23.43/hr)	\$ 35.15	\$ 35.15	2	
10	Labor - Related Overheads	\$ 46.04	\$ 46.04	3	
11	Transportation	\$ 7.00	\$ 7.00	4	
12	Estimated Material (Telephone line surge suppressor, misc. wire, tape, etc.)	\$ 35.00	\$ 35.00		
13					
14	One Time Fee for General Service Option One	\$ 606.19	\$ 491.19		

Option Two - General Service:

Hourly Reporting Equipment - Customer Owned Equipment Incremental Cost of Pulse Interface Box Installed:	Without existing interval metering Amount		With existing interval metering Amount		Notes:	
KYZ Module	\$	69.00	\$	69.00	1	
Pulse Interface	\$	47.50	\$	47.50	1	
Cost of Labor (One Meter Mechanic 1.5 Hours @ \$23.43/hr)	\$	35.15	\$	35.15	2	
Labor - Related Overheads	\$	46.04	\$	46.04	3	
Transportation	\$	7.00	\$	7.00	4	
Estimated Material (Misc. wire, tape, etc.)	\$	5.00	\$	5.00		
One Time Fee for General Service Option Two	\$	209.69	\$	209.69		

- 1 Material estimates provided by metering department based on equipment currently in use.
- 2 Labor cost based on hourly wage of Meter Mechanic effective June 1, 2001 per union labor agreement.
- 3 Based upon April 1, 2001 direct labor overhead rate of 131%.
- 4 Based upon \$0.70/mile transportation rate for vehicle during 2001 and estimated trip of 10 miles.

Fitchburg Gas and Electric Light Company Calculation of Monthly Charge for Enhanced Metering Residential Service

1	Residential - Option 1:			
2		<u> </u>	mount:	Notes:
3	Total Installation Cost of Enhanced Metering Equipment			
4	for this Option per Page 1 of 5	\$	606.19	1
5				
6	Annual Carrying Charge		<u>49.90%</u>	2
7				
8	Annual Enhanced Metering Charge	\$	302.49	3
9				
10	Monthly Enhanced Metering Charge	\$	25.21	4
11				
12				
13	Residential - Option 2:			
14				
15	Total Installation Cost of Enhanced Metering Equipment			
16	for this Option per Page 1 of 5	\$	209.69	5
17				_
18	Annual Carrying Charge		<u>49.90%</u>	2
19				
20	Annual Enhanced Metering Charge	\$	104.64	6
21				_
22	Monthly Enhanced Metering Charge	\$	8.72	7

- 1 Residential Option One one-time cost
- 2 Annual Carrying Charge per Page 5 of 5
- 3 Line 4 times Line 6
- 4 Line 8 divided by twelve
- 5 Residential Option Two one-time cost
- 6 Line 16 times Line 18
- 7 Line 20 divided by twelve

Fitchburg Gas and Electric Light Company Calculation of Monthly Charge for Enhanced Metering General Service

	O and O and the Outlands	Without existing interval		With existing interval			
1	General Service - Option 1:	meter			metering	Notes:	
2	Total Installation Cost of Enhanced Metering Equipment		Amount		Amount	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4	for this Option per Page 1 of 5	\$	606.19	\$	491.19	1	
5	of this Option per rage roll of	•	0000	•			
6	Annual Carrying Charge		<u>49.90%</u>		<u>49.90%</u>	2	
7	Annual Carrying Charge						
8	Annual Enhanced Metering Charge	\$	302.49	\$	245.10	3	
9	, anida Emidico Metoling Charge						
10	Monthly Enhanced Metering Charge	\$	25.21	\$	20.43	4	
11	,						
12							
13	General Service - Option 2:						
14							
15	Total Installation Cost of Enhanced Metering Equipment						
16	for this Option per Page 1 of 5	\$	209.69	\$	209.69	5	
17						_	
18	Annual Carrying Charge		<u>49.90%</u>		<u>49.90%</u>	2	
19				_		_	
20	Annual Enhanced Metering Charge	\$	104.64	\$	104.64	6	
21		_		_			
22	Monthly Enhanced Metering Charge	\$	8.72	\$	8.72	7	

- 1 General Service Option One one-time cost
- 2 Annual Carrying Charge per Page 5 of 5
- 3 Line 4 times Line 6
- 4 Line 8 divided by twelve
- 5 General Service Option Two one-time cost
- 6 Line 16 times Line 18
- 7 Line 20 divided by twelve

Fitchburg Gas and Electric Light Company

Annual Carrying Charge Enhanced Metering

				Notes:
1 Total Cost of Capital			9.19%	1
2				
3 Income Taxes:	Rate			
4			0.550/	4
5 Federal (FIT)	34%		2.55%	1
6			0.500/	1
7 State (SIT)	6.5%		0.52%	ı
8			33.33%	2
9 Depreciation Expense			33.3376	2
10		Average		
11		Average		
12	_	Depreciable Plant in Svc.		
13	Expense	Plant in Svc.		
14 	0 744 000	\$ 70,276,937	1.02%	3
15 Property Taxes	\$ 714,288	\$ 70,270,937	1.0270	· ·
16	\$ 148,559	\$ 70,276,937	0.21%	3
17 Pensions & Benefits	ф 140,559	Ψ 70,270,007	5.2 776	
18 19 Employment Taxes	\$ 123,345	\$ 70,276,937	0.18%	3
20	Ψ 120,010	, , , , , , , , , , , , , , , , , , ,		
21		Average		
22		Depreciable		
23		Dist. Plant in Svc.		
24				
25 Dist. O&M Expense	\$ 1,495,935	\$ 51,561,514	2.90%	3
26	, ., ,			
27 Total Carrying Charge			<u>49.90%</u>	
• •				

- 1 Recommended Cost of Capital per pending DTE Docket 99-118, see below
- 2 Three year recovery schedule
- 3 From 2000 FG&E FERC Form 1

FG&E Capital Structure as of 12/31/00:

				Weighted	Fed	Tax affected	State	Tax affected
		Cost	Weiaht	Cost	Tax Calc	Wted cost	Tax Calc	Wted cost
LT Debt	\$ 54,000,000	7.56%	55.95%	4.23%	1.00	4.23%	1.00	4.23%
Preferred Stock	\$ 2.235.640	6.89%	2.32%	0.16%	1.52	0.24%	1.07	0.26%
Common Equity	\$ 40,285,726	11.50%	41.74%	4.80%	1.52	7.27%	1.07	7.78%
	\$ 96,521,366		100%	9.19%	2.55%	11.74%	0.52%	12.27%

Fitchburg Gas and Electric Light Company Optional Interval Data Service

1	Fees for Managing Single Request or Annual Subscription			
2				Notes:
3	Cost of Receiving Request, Preparing Bill & Cash Collections			
4	Cost of Labor per Hour for Associate Billing Analyst	\$	14.65	1
5	Estimated Time Required to Process Data Request		<u>0.50</u>	
6	Cost of Labor	\$	7.33	
7	Labor-Related Overheads (95%)	\$	6.96	2
8	Total Cost	\$	14.28	
9	Total Goot			
10	Cost of Labor per Hour for Customer Service Representative	\$	12.50	1
11	Estimated Time Required to Process Transaction per Customer		0.10	
12	Cost of Labor	\$	1.25	
13	Labor-Related Overheads (95%)	\$	1.19	2
14	Total Cost	\$	2.44	
15	Total Cost	•	_, ,	
16	Cost of Labor per Hour for Credit Representative	\$	13.40	1
17	Estimated Time Required to Process Transaction per Customer	·	0.20	
18	Cost of Labor	-\$	2.68	
19	Labor-Related Overheads (95%)	\$		2
20	Total Cost	\$		
21	Total Cost	Ţ		
22	Cost of Labor per Hour for Remittance Processor	\$	12.80	1
23	Estimated Time Required to Process Transaction per Customer	,	0.01	
24	Cost of Labor	-\$		
25	Labor-Related Overheads (95%)	\$		2
26	Total Cost			
27	rotal oost	·		
28	Total Cost	\$	22.20	
29	1000			
30	Cost of Performing Customer Data Analysis:			
31	Cost of Labor per Hour for Meter Technician	\$	23.43	3
32	Estimated Time Required to Process		0.50	
33	Cost of Labor	\$	11.72	
34	Labor-Related Overheads (131%)	\$	15.35	4
35	Total Cost	9	27.06	
36	Total Cost	•		
30 37	Total Fee for Performing Single Request per Meter	\$	49.26	5
38	Total 1 00 for 1 offerfilling offigio (todasse per meter	,		
39	Total Fee for Annual Subscription per Meter	9	346.92	6
33	10tal 100 tol Allitati Gasconpacti political	•		

¹ Hourly wages for positions effective 2001

² Based on April 1, 2001 Unitil Service Corp. overhead rate of 95%

³ Meter Technician hourly wage per union contract effective 6/1/01

⁴ Based on April 1, 2001 FG&E direct overhead rate of 131%

⁵ Line 28 + Line 35

⁶ Line 28 + (Line 35 *12)